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33448 7590 07/18/2003 ROBERT J. DEPKE LEWIS T. STEADMAN HOLLAND & KNIGHT LLC 131 SOUTH DEARBORN 30TH FLOOR ARTINET	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
ROBERT J. DEPKE LEWIS T. STEADMAN HOLLAND & KNIGHT LLC 131 SOUTH DEARBORN 30TH FLOOR EXAMINER NGUYEN, CUONG QUANC	09/834,075	04/12/2001	Masahiro Tanaka	09792909-4974	2748	
HOLLAND & KNIGHT LLC 131 SOUTH DEARBORN 30TH FLOOR ARTUNIT OF THE PROPERTY	33448	7590 07/18/2003				
131 SOUTH DEARBORN 30TH FLOOR ARTUNIT				EXAM	EXAMINER	
ADTIBUT	131 SOUTH D	DEARBORN	NGUYEN, CUONG QUANG			
CHICAGO, IL 60603				ART UNIT	PAPER NUMBER	

DATE MAILED: 07/18/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

	_			VM	
		Application No.	Applicant(s)		
Office Action Summary		09/834,075	TANAKA, MASAH	TANAKA, MASAHIRO	
		Examin r	Art Unit		
		Cuong Q Nguyen	2811		
	The MAILING DATE of this communi	cation app ars on the cover shet	with the correspondence ac	ldress	
Period fo	or Reply ORTENED STATUTORY PERIOD FO		MONTH(S) FROM		
THE I - Exter after - If the - If NO - Failu - Any r	MAILING DATE OF THIS COMMUNIC risions of time may be available under the provisions of SIX (6) MONTHS from the mailing date of this comming period for reply specified above, the maximum state to reply within the set or extended period for reply very leply received by the Office later than three months and patent term adjustment. See 37 CFR 1.704(b).	CATION. of 37 CFR 1.136(a). In no event, however, may unication.) days, a reply within the statutory minimum of uttory period will apply and will expire SIX (6) M will, by statute, cause the application to become	r a reply be timely filed thirty (30) days will be considered time IONTHS from the mailing date of this c BABANDONED (35 U.S.C. § 133).	ly. ommunication.	
1)	Responsive to communication(s) file	ed on			
2a)⊠	This action is FINAL .	2b)☐ This action is non-final.			
3)	Since this application is in condition closed in accordance with the pract			ne merits is	
Dispositi	on of Claims				
4)⊠	Claim(s) 1-20 is/are pending in the a	application.			
	4a) Of the above claim(s) <u>2-4 and 16</u>	-19 is/are withdrawn from conside	eration.		
5)⊠	Claim(s) <u>5-10 and 12-15</u> is/are allow	ed.			
6)⊠	Claim(s) <u>1 and 20</u> is/are rejected.				
7)⊠	Claim(s) <u>11</u> is/are objected to.	•			
	Claim(s) are subject to restriction Papers	tion and/or election requirement.			
9) 🗌 🤈	The specification is objected to by the	Examiner.			
10) 🔲 .	The drawing(s) filed on is/are:	a) accepted or b) objected to b	y the Examiner.		
	Applicant may not request that any obje	ection to the drawing(s) be held in ab	eyance. See 37 CFR 1.85(a).		
11) 🔲 🤇	The proposed drawing correction filed	l on is: a) ☐ approved b) ☐	disapproved by the Examir	ner.	
	If approved, corrected drawings are rec				
12) 🗌 🤄	The oath or declaration is objected to	by the Examiner.			
_	ınder 35 U.S.C. §§ 119 and 120				
13)	Acknowledgment is made of a claim	for foreign priority under 35 U.S.0	C. § 119(a)-(d) or (f).		
a)	☐ All b)☐ Some * c)☐ None of:				
	1. Certified copies of the priority	documents_have_been-received			
	2. Certified copies of the priority		• •		
* 5	3. Copies of the certified copies of application from the Intern. See the attached detailed Office action	ational Bureau (PCT Rule 17.2(a))) .	Stage	
14) 🗌 A	Acknowledgment is made of a claim fo	or domestic priority under 35 U.S.	C. § 119(e) (to a provisiona	il application).	
) The translation of the foreign lan Acknowledgment is made of a claim for	• • •			
Attachmen	•				
2) Notic	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (P mation Disclosure Statement(s) (PTO-1449) Pa	TO-948) 5) Notice	ew Summary (PTO-413) Paper No of Informal Patent Application (PT		

U.S. Patent and Trademark Office PTO-326 (Rev. 04-01) Serial Number: 09/834,075

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DETAILED ACTION

Claim Objections

1. In claim 11, the expression "comprises any one of" is unclear. One acceptable form of alternative expression, which is commonly referred to as a Markush group, recites members as being "selected from the group consisting of A, B and C." See Ex parte Markush, 1925 C.D. 126 (Comm'r Pat. 1925).

Correction is required.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

Claim 1 is rejected under 35 U.S.C. 102(b) as being clearly anticipated by Hsu et al. (US 5,932,904).

Hsu et al. discloses a nonvolatile semiconductor storage device provided with a capacitor using a ferroelectric thin film (38), wherein the ferroelectric thin film is formed of LiNb3 (col.4 lines 27-35). See Hsu Fig.6.

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Claim 20 is are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Hartner et al. (US 6,438,019).

Hartner et al. discloses a nonvolatile semiconductor storage device comprising: a complex capacitor having a stack of first capacitor (C!) and a second capacitor (C2), wherein the first capacitor has a ferroelectric thin film (6) between electrodes (5) and (8), and the second capacitor has a dielectric thin film (7) between the electrodes (5) and (9). See Hartner et al.'s Fig.1.

Response to Arguments

3. Applicant's arguments with respect to claim 1 have been considered but are most in view of the new ground(s) of rejection.

Allowable Subject Matter

- 4. Claims 5-15 are allowed.
- the following is an examiner's statement of reasons for allowance: Summerfelt et al. (US 6,548,343) appears to be the closest prior art reference. However, this reference fails to teach that the complex capacitor including a dielectric thin film having a temperature dependency, in which a dielectric constant of the capacitor decreases an increase in temperature in an operational temperature range of nonvolatile semiconductor storage device. Prior art of record fails to teach or suggest to incorporate these limitations into Summerfelt et al. to arrive at the claimed device.

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6. Claim 11 also is allowed if it is rewritten to overcome above objection.

Conclusion

7. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

8. Papers related to this application may be submitted to Technology center (TC) 2800 by facsimile transmission. Papers should be faxed to TC 2800 via the TC 2800 Fax center located in Crystal Plaza 4, room 4-C23. The faxing of such papers must conform with the notice published in the Official-Gazette, 1096-OG-30 (November 15, 1989). The Group 2811 Fax Center number is (703) 308-7722

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and 308-7724. The Group 2811 Fax Center is to be used only for papers related to

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Group 2811 applications.

9. Any inquiry concerning this communication or any earlier communication from

the Examiner should be directed to CUONG Q NGUYEN whose telephone number is

(703) 308-1293. The Examiner is in the Office generally between the hours of 6:30 AM

to 5:00 PM (Eastern Standard Time) Monday through Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor TOM THOMAS who can be reached on (703) 308-2772. The fax phone

number for the organization where this application or proceeding is assigned is (703)

308-7722 or 308-7724.

Any inquiry of a general nature or relating to the status of this application should be

directed to the Technology Center Receptionists whose telephone number is 308-0956.

Cuong Nguyen

Primary examiner

July 10, 2003-